

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P853749

Luminaire Tested: SQ2-FA-025U-125D-930-UNV-STD-W-4

Issue Date: 7/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P853749
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-9, G2-2308-131-11)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2-FA-025U-125D-930-UNV-STD-W-4
Description: CORELITE SQ2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

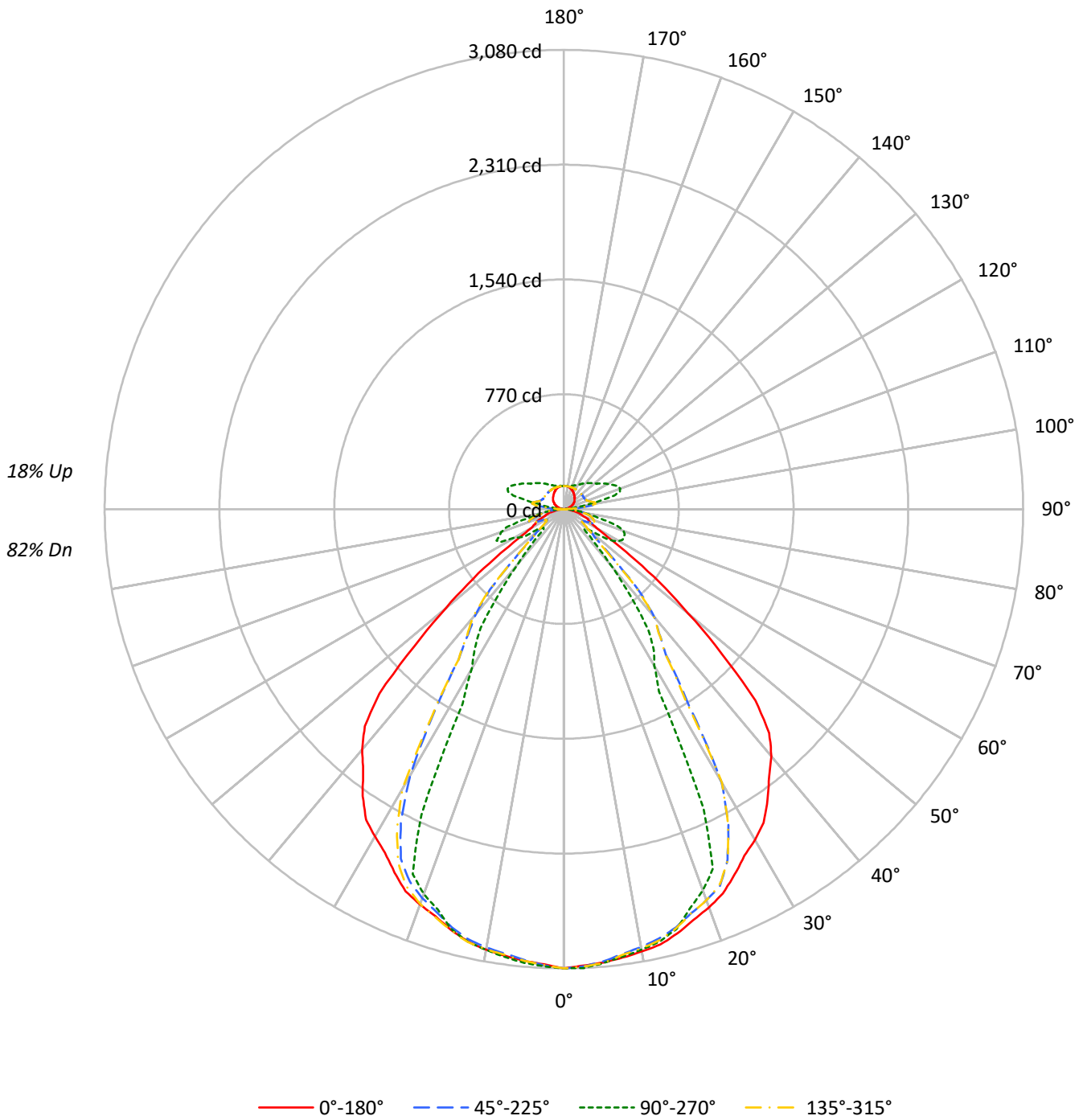
Lumens per Lamp: N/A
Luminaire Lumens: 5464.8 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.95 / 0.95
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 56.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P853749

CATALOG NUMBER: SQ2-FA-025U-125D-930-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P853749

CATALOG NUMBER: SQ2-FA-025U-125D-930-UNV-STD-W-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | 0 | |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 110 | 101 | 101 | 101 | 93 | 93 | 93 | 86 | 86 | 86 | 82 | | |
| 1 | 107 | 103 | 99 | 96 | 102 | 99 | 96 | 93 | 92 | 89 | 87 | 85 | 83 | 81 | 79 | 77 | 76 | 73 | | |
| 2 | 99 | 92 | 87 | 82 | 95 | 89 | 84 | 80 | 83 | 79 | 76 | 77 | 74 | 71 | 72 | 69 | 67 | 64 | | |
| 3 | 92 | 83 | 77 | 72 | 88 | 81 | 75 | 70 | 75 | 70 | 66 | 70 | 67 | 63 | 66 | 63 | 60 | 57 | | |
| 4 | 86 | 76 | 69 | 63 | 82 | 73 | 67 | 62 | 69 | 64 | 59 | 65 | 60 | 57 | 61 | 57 | 54 | 52 | | |
| 5 | 80 | 69 | 62 | 56 | 77 | 67 | 60 | 55 | 63 | 58 | 53 | 60 | 55 | 51 | 56 | 52 | 49 | 47 | | |
| 6 | 75 | 64 | 56 | 51 | 72 | 62 | 55 | 50 | 58 | 53 | 48 | 55 | 50 | 47 | 52 | 48 | 45 | 43 | | |
| 7 | 70 | 59 | 51 | 46 | 67 | 57 | 50 | 45 | 54 | 48 | 44 | 51 | 46 | 43 | 49 | 44 | 41 | 39 | | |
| 8 | 66 | 54 | 47 | 42 | 63 | 53 | 46 | 42 | 50 | 45 | 40 | 48 | 43 | 39 | 46 | 41 | 38 | 36 | | |
| 9 | 62 | 51 | 44 | 39 | 60 | 49 | 43 | 38 | 47 | 41 | 37 | 45 | 40 | 36 | 43 | 38 | 35 | 33 | | |
| 10 | 59 | 47 | 40 | 36 | 57 | 46 | 40 | 35 | 44 | 38 | 34 | 42 | 37 | 34 | 40 | 36 | 33 | 31 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-------|-------|-------|-------|
| 0° | 49729 | 49729 | 49729 | 49729 |
| 5° | 49469 | 49543 | 49279 | 49506 |
| 10° | 49393 | 49201 | 49201 | 49201 |
| 15° | 49232 | 48727 | 48844 | 48727 |
| 20° | 48850 | 46775 | 48491 | 47215 |
| 25° | 48209 | 39476 | 47878 | 40305 |
| 30° | 47765 | 22648 | 47247 | 22952 |
| 35° | 46929 | 19458 | 46333 | 19184 |
| 40° | 45627 | 10233 | 44356 | 10134 |
| 45° | 41475 | 4402 | 39991 | 4402 |
| 50° | 27364 | 5310 | 25962 | 4958 |
| 55° | 15299 | 9807 | 14517 | 8892 |
| 60° | 8251 | 13801 | 8102 | 12377 |
| 65° | 7278 | 16772 | 7633 | 19079 |
| 70° | 6798 | 20068 | 6467 | 21163 |
| 75° | 6376 | 17243 | 6519 | 17823 |
| 80° | 5402 | 12311 | 5402 | 12961 |
| 85° | 4742 | 6891 | 4298 | 8170 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 41475 cd/sqm



TEST NUMBER: P853749

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 289.9 | 5.3 |
| 10°-20° | 822.3 | 15.0 |
| 20°-30° | 1121.2 | 20.5 |
| 30°-40° | 942.2 | 17.2 |
| 40°-50° | 535.1 | 9.8 |
| 50°-60° | 283.9 | 5.2 |
| 60°-70° | 261.4 | 4.8 |
| 70°-80° | 191.9 | 3.5 |
| 80°-90° | 50.5 | 0.9 |
| 90°-100° | 63.0 | 1.2 |
| 100°-110° | 196.0 | 3.6 |
| 110°-120° | 191.7 | 3.5 |
| 120°-130° | 156.5 | 2.9 |
| 130°-140° | 128.0 | 2.3 |
| 140°-150° | 99.9 | 1.8 |
| 150°-160° | 72.1 | 1.3 |
| 160°-170° | 44.1 | 0.8 |
| 170°-180° | 14.9 | 0.3 |
| 0°-30° | 2233.3 | 40.9 |
| 0°-40° | 3175.5 | 58.1 |
| 0°-60° | 3994.6 | 73.1 |
| 0°-90° | 4498.5 | 82.3 |
| 90°-120° | 450.7 | 8.2 |
| 90°-150° | 835.2 | 15.3 |
| 90°-180° | 966.0 | 17.7 |
| 0°-180° | 5464.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0° | 3080 | 3080 | 3080 | 3080 | 3080 | |
| 5° | 3052 | 3057 | 3040 | 3054 | 3052 | 290 |
| 15° | 2945 | 2915 | 2922 | 2915 | 2945 | 830 |
| 25° | 2706 | 2216 | 2688 | 2262 | 2706 | 1248 |
| 35° | 2381 | 987 | 2351 | 973 | 2381 | 1486 |
| 45° | 1816 | 193 | 1751 | 193 | 1816 | 1328 |
| 55° | 544 | 348 | 516 | 316 | 544 | 524 |
| 65° | 190 | 439 | 200 | 499 | 190 | 191 |
| 75° | 102 | 276 | 104 | 286 | 102 | 105 |
| 85° | 26 | 37 | 23 | 44 | 26 | 28 |
| 90° | 0 | 3 | 0 | 3 | 0 | 2 |
| 95° | 9 | 28 | 9 | 28 | 9 | 10 |
| 105° | 34 | 352 | 34 | 352 | 34 | 36 |
| 115° | 61 | 378 | 61 | 378 | 61 | 60 |
| 125° | 85 | 298 | 85 | 298 | 85 | 75 |
| 135° | 102 | 246 | 102 | 246 | 102 | 79 |
| 145° | 119 | 206 | 119 | 206 | 119 | 75 |
| 155° | 137 | 176 | 137 | 176 | 137 | 63 |
| 165° | 150 | 162 | 150 | 162 | 150 | 42 |
| 175° | 156 | 156 | 156 | 156 | 156 | 15 |
| 180° | 156 | 156 | 156 | 156 | 156 | |



TEST NUMBER: P853749

CATALOG NUMBER: SQ2-FA-025U-125D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3080.0 | 3080.0 | 3080.0 | 3080.0 | 3080.0 | 3080.0 | 3080.0 | 3080.0 | 3080.0 | 3080.0 | 3080.0 |
| 2.5° | 3063.3 | 3108.7 | 3068.9 | 3063.7 | 3080.0 | 3076.4 | 3070.7 | 3092.2 | 3055.9 | 3092.2 | 3063.3 |
| 5° | 3052.2 | 3104.4 | 3045.2 | 3029.5 | 3056.8 | 3038.6 | 3054.5 | 3086.0 | 3040.5 | 3081.4 | 3035.9 |
| 7.5° | 3033.1 | 3079.4 | 3008.5 | 2998.4 | 3025.2 | 3009.3 | 3015.9 | 3059.6 | 3021.5 | 3048.3 | 3007.1 |
| 10° | 3012.7 | 3053.5 | 2982.5 | 2976.1 | 3001.0 | 2985.2 | 2991.8 | 3037.4 | 3001.0 | 3026.0 | 2984.8 |
| 12.5° | 2990.4 | 3022.2 | 2950.9 | 2948.1 | 2969.5 | 2959.0 | 2962.0 | 3000.4 | 2971.3 | 2996.3 | 2956.9 |
| 15° | 2945.3 | 2974.8 | 2903.5 | 2892.4 | 2915.1 | 2906.0 | 2910.5 | 2944.8 | 2922.1 | 2938.0 | 2903.5 |
| 17.5° | 2889.6 | 2913.2 | 2842.2 | 2808.7 | 2809.7 | 2821.0 | 2842.2 | 2883.5 | 2863.1 | 2884.0 | 2835.2 |
| 20° | 2843.1 | 2870.4 | 2792.0 | 2726.9 | 2722.3 | 2733.7 | 2792.0 | 2833.5 | 2822.2 | 2844.9 | 2775.7 |
| 22.5° | 2789.2 | 2807.4 | 2736.3 | 2626.3 | 2610.8 | 2622.2 | 2728.8 | 2778.0 | 2773.9 | 2789.3 | 2703.3 |
| 25° | 2706.1 | 2724.2 | 2594.6 | 2436.2 | 2215.9 | 2422.6 | 2599.2 | 2687.5 | 2687.5 | 2701.1 | 2587.6 |
| 27.5° | 2621.5 | 2622.0 | 2387.4 | 1564.6 | 1380.2 | 1508.3 | 2384.1 | 2575.5 | 2597.3 | 2590.5 | 2367.4 |
| 30° | 2562.0 | 2546.1 | 2116.1 | 1264.8 | 1214.8 | 1246.6 | 2118.4 | 2497.8 | 2534.2 | 2509.2 | 2062.6 |
| 32.5° | 2493.3 | 2448.3 | 1562.3 | 1162.8 | 1121.9 | 1150.1 | 1510.7 | 2405.5 | 2469.1 | 2415.1 | 1622.2 |
| 35° | 2380.9 | 2262.8 | 1191.6 | 1028.1 | 987.2 | 1023.5 | 1182.3 | 2223.5 | 2350.7 | 2205.3 | 1231.1 |
| 37.5° | 2259.6 | 1798.6 | 1049.0 | 818.9 | 730.8 | 801.2 | 1043.9 | 1779.3 | 2210.4 | 1738.0 | 1048.0 |
| 40° | 2164.8 | 1413.1 | 943.1 | 599.0 | 485.5 | 565.0 | 936.1 | 1348.1 | 2104.5 | 1450.4 | 919.8 |
| 42.5° | 2038.5 | 1241.3 | 757.2 | 380.5 | 297.8 | 348.2 | 726.1 | 1212.6 | 1974.4 | 1256.7 | 732.1 |
| 45° | 1816.4 | 1066.9 | 448.3 | 208.7 | 192.8 | 201.9 | 413.5 | 1047.3 | 1751.4 | 1024.6 | 457.6 |
| 47.5° | 1438.7 | 813.7 | 288.0 | 177.4 | 194.7 | 177.4 | 279.2 | 787.9 | 1358.8 | 786.5 | 287.6 |
| 50° | 1089.4 | 635.2 | 223.0 | 179.6 | 211.4 | 179.6 | 216.0 | 613.5 | 1033.6 | 670.3 | 220.7 |
| 52.5° | 806.9 | 530.8 | 182.1 | 196.9 | 254.1 | 200.5 | 177.0 | 516.7 | 766.1 | 540.8 | 172.4 |
| 55° | 543.5 | 416.3 | 146.3 | 259.8 | 348.4 | 266.7 | 146.3 | 404.4 | 515.7 | 399.8 | 141.7 |
| 57.5° | 344.7 | 309.7 | 148.2 | 334.1 | 397.7 | 340.4 | 150.5 | 298.5 | 330.8 | 299.9 | 130.1 |
| 60° | 255.5 | 244.2 | 164.9 | 354.7 | 427.4 | 359.3 | 167.2 | 235.0 | 250.9 | 232.7 | 139.4 |
| 62.5° | 210.9 | 192.3 | 198.4 | 384.2 | 444.1 | 374.2 | 202.5 | 183.4 | 219.3 | 175.7 | 154.2 |
| 65° | 190.5 | 124.6 | 234.6 | 389.0 | 439.0 | 389.0 | 236.9 | 118.0 | 199.8 | 127.1 | 209.1 |
| 67.5° | 171.9 | 92.4 | 226.7 | 386.4 | 441.8 | 387.3 | 221.1 | 88.2 | 164.9 | 85.9 | 213.7 |
| 70° | 144.0 | 82.7 | 213.7 | 393.3 | 425.1 | 379.6 | 213.7 | 80.3 | 137.0 | 78.0 | 250.9 |
| 72.5° | 119.9 | 78.5 | 198.8 | 363.1 | 376.8 | 349.5 | 200.7 | 78.1 | 120.3 | 70.4 | 236.0 |
| 75° | 102.2 | 77.2 | 190.5 | 290.0 | 276.4 | 276.4 | 185.8 | 75.0 | 104.5 | 70.5 | 183.5 |
| 77.5° | 76.7 | 68.5 | 157.9 | 189.3 | 178.9 | 178.9 | 155.2 | 66.1 | 72.9 | 62.0 | 149.1 |
| 80° | 58.1 | 62.6 | 130.1 | 139.2 | 132.4 | 132.4 | 125.4 | 60.3 | 58.1 | 58.1 | 123.1 |
| 82.5° | 45.1 | 53.2 | 100.3 | 102.1 | 97.1 | 95.3 | 97.6 | 52.8 | 45.1 | 48.7 | 95.2 |
| 85° | 25.6 | 36.9 | 53.4 | 44.0 | 37.2 | 34.9 | 51.1 | 34.6 | 23.2 | 34.6 | 51.1 |
| 87.5° | 9.3 | 16.7 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 16.7 | 9.3 | 14.9 | 9.9 |
| 90° | 0.0 | 0.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 0.9 | 0.0 | 0.9 | 2.9 |
| 92.5° | 3.1 | 10.7 | 36.5 | 12.0 | 9.7 | 12.0 | 36.5 | 10.7 | 3.1 | 10.7 | 36.5 |
| 95° | 8.6 | 25.4 | 115.6 | 42.6 | 27.7 | 42.6 | 115.6 | 25.4 | 8.6 | 25.4 | 115.6 |
| 97.5° | 15.7 | 33.0 | 191.4 | 119.2 | 75.1 | 119.2 | 191.4 | 33.0 | 15.7 | 33.0 | 191.4 |
| 100° | 21.0 | 36.9 | 215.9 | 201.9 | 134.7 | 201.9 | 215.9 | 36.9 | 21.0 | 36.9 | 215.9 |
| 102.5° | 26.4 | 41.5 | 211.3 | 288.4 | 226.4 | 288.4 | 211.3 | 41.5 | 26.4 | 41.5 | 211.3 |
| 105° | 34.4 | 48.4 | 192.9 | 368.3 | 351.5 | 368.3 | 192.9 | 48.4 | 34.4 | 48.4 | 192.9 |
| 107.5° | 42.4 | 55.5 | 175.4 | 374.5 | 393.0 | 374.5 | 175.4 | 55.5 | 42.4 | 55.5 | 175.4 |
| 110° | 47.8 | 60.8 | 166.2 | 365.7 | 402.1 | 365.7 | 166.2 | 60.8 | 47.8 | 60.8 | 166.2 |



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CATALOG NUMBER: SQ2-FA-025U-125D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 112.5° | 53.1 | 65.4 | 161.6 | 349.9 | 396.0 | 349.9 | 161.6 | 65.4 | 53.1 | 65.4 | 161.6 |
| 115° | 61.1 | 72.3 | 156.6 | 323.1 | 378.2 | 323.1 | 156.6 | 72.3 | 61.1 | 72.3 | 156.6 |
| 117.5° | 69.0 | 79.2 | 154.5 | 297.6 | 354.0 | 297.6 | 154.5 | 79.2 | 69.0 | 79.2 | 154.5 |
| 120° | 73.5 | 83.8 | 153.8 | 283.0 | 337.2 | 283.0 | 153.8 | 83.8 | 73.5 | 83.8 | 153.8 |
| 122.5° | 78.1 | 88.4 | 154.5 | 270.7 | 320.4 | 270.7 | 154.5 | 88.4 | 78.1 | 88.4 | 154.5 |
| 125° | 85.0 | 94.3 | 154.7 | 254.1 | 298.0 | 254.1 | 154.7 | 94.3 | 85.0 | 94.3 | 154.7 |
| 127.5° | 90.5 | 100.1 | 154.7 | 241.7 | 279.1 | 241.7 | 154.7 | 100.1 | 90.5 | 100.1 | 154.7 |
| 130° | 93.6 | 103.9 | 154.7 | 234.8 | 268.4 | 234.8 | 154.7 | 103.9 | 93.6 | 103.9 | 154.7 |
| 132.5° | 97.4 | 107.7 | 154.0 | 228.6 | 260.0 | 228.6 | 154.0 | 107.7 | 97.4 | 107.7 | 154.0 |
| 135° | 102.2 | 113.4 | 153.8 | 219.3 | 246.4 | 219.3 | 153.8 | 113.4 | 102.2 | 113.4 | 153.8 |
| 137.5° | 107.7 | 118.0 | 153.8 | 210.1 | 234.8 | 210.1 | 153.8 | 118.0 | 107.7 | 118.0 | 153.8 |
| 140° | 110.8 | 121.1 | 153.8 | 204.0 | 226.4 | 204.0 | 153.8 | 121.1 | 110.8 | 121.1 | 153.8 |
| 142.5° | 114.6 | 124.1 | 153.8 | 197.8 | 218.0 | 197.8 | 153.8 | 124.1 | 114.6 | 124.1 | 153.8 |
| 145° | 119.4 | 128.7 | 153.8 | 189.5 | 206.3 | 189.5 | 153.8 | 128.7 | 119.4 | 128.7 | 153.8 |
| 147.5° | 125.1 | 133.2 | 154.7 | 181.8 | 195.0 | 181.8 | 154.7 | 133.2 | 125.1 | 133.2 | 154.7 |
| 150° | 128.9 | 135.5 | 154.7 | 177.9 | 188.2 | 177.9 | 154.7 | 135.5 | 128.9 | 135.5 | 154.7 |
| 152.5° | 132.0 | 137.8 | 154.7 | 174.0 | 182.8 | 174.0 | 154.7 | 137.8 | 132.0 | 137.8 | 154.7 |
| 155° | 136.6 | 141.3 | 154.7 | 170.1 | 175.8 | 170.1 | 154.7 | 141.3 | 136.6 | 141.3 | 154.7 |
| 157.5° | 141.2 | 144.7 | 154.7 | 166.7 | 170.2 | 166.7 | 154.7 | 144.7 | 141.2 | 144.7 | 154.7 |
| 160° | 144.2 | 147.0 | 154.7 | 164.4 | 167.2 | 164.4 | 154.7 | 147.0 | 144.2 | 147.0 | 154.7 |
| 162.5° | 146.5 | 148.6 | 154.7 | 162.8 | 164.9 | 162.8 | 154.7 | 148.6 | 146.5 | 148.6 | 154.7 |
| 165° | 150.0 | 150.9 | 155.7 | 160.5 | 162.4 | 160.5 | 155.7 | 150.9 | 150.0 | 150.9 | 155.7 |
| 167.5° | 152.1 | 152.2 | 154.7 | 159.2 | 160.1 | 159.2 | 154.7 | 152.2 | 152.1 | 152.2 | 154.7 |
| 170° | 152.8 | 153.8 | 154.7 | 157.6 | 158.6 | 157.6 | 154.7 | 153.8 | 152.8 | 153.8 | 154.7 |
| 172.5° | 154.4 | 154.5 | 155.5 | 156.8 | 157.0 | 156.8 | 155.5 | 154.5 | 154.4 | 154.5 | 155.5 |
| 175° | 155.7 | 155.7 | 155.7 | 156.6 | 155.7 | 156.6 | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 |
| 177.5° | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 |
| 180° | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 |



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CATALOG NUMBER: SQ2-FA-025U-125D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3080.0 | 3080.0 | 3080.0 | 3080.0 | 3080.0 | 3080.0 |
| 2.5° | 3056.2 | 3068.9 | 3068.9 | 3061.4 | 3097.8 | 3063.3 |
| 5° | 3024.9 | 3054.5 | 3040.8 | 3040.5 | 3086.2 | 3052.2 |
| 7.5° | 3003.1 | 3030.8 | 3018.1 | 3015.5 | 3060.4 | 3033.1 |
| 10° | 2980.6 | 3001.0 | 2992.0 | 2998.7 | 3039.9 | 3012.7 |
| 12.5° | 2949.1 | 2973.2 | 2964.1 | 2974.6 | 3012.2 | 2990.4 |
| 15° | 2894.7 | 2915.1 | 2919.6 | 2924.4 | 2968.0 | 2945.3 |
| 17.5° | 2804.8 | 2814.8 | 2837.5 | 2869.6 | 2915.0 | 2889.6 |
| 20° | 2734.2 | 2747.9 | 2761.5 | 2817.5 | 2870.4 | 2843.1 |
| 22.5° | 2653.9 | 2649.4 | 2681.2 | 2746.9 | 2812.8 | 2789.2 |
| 25° | 2437.3 | 2262.4 | 2455.5 | 2624.8 | 2712.9 | 2706.1 |
| 27.5° | 1697.0 | 1472.7 | 1671.2 | 2422.7 | 2607.9 | 2621.5 |
| 30° | 1335.6 | 1231.1 | 1333.3 | 2162.5 | 2530.2 | 2562.0 |
| 32.5° | 1185.8 | 1114.0 | 1176.2 | 1645.9 | 2432.4 | 2493.3 |
| 35° | 1023.2 | 973.3 | 1023.2 | 1231.1 | 2240.1 | 2380.9 |
| 37.5° | 819.0 | 716.8 | 817.2 | 1063.8 | 1810.8 | 2259.6 |
| 40° | 610.3 | 480.8 | 592.1 | 952.3 | 1447.2 | 2164.8 |
| 42.5° | 406.6 | 309.9 | 384.8 | 749.8 | 1251.7 | 2038.5 |
| 45° | 220.0 | 192.8 | 211.0 | 452.9 | 1021.5 | 1816.4 |
| 47.5° | 172.6 | 182.6 | 172.6 | 285.7 | 781.5 | 1438.7 |
| 50° | 165.6 | 197.4 | 165.6 | 220.7 | 646.5 | 1089.4 |
| 52.5° | 180.5 | 214.2 | 178.7 | 174.2 | 527.6 | 806.9 |
| 55° | 204.6 | 315.9 | 206.9 | 141.7 | 386.8 | 543.5 |
| 57.5° | 291.3 | 355.4 | 294.5 | 134.3 | 297.9 | 344.7 |
| 60° | 299.2 | 383.3 | 297.0 | 141.7 | 230.5 | 255.5 |
| 62.5° | 353.9 | 474.3 | 353.5 | 162.1 | 171.4 | 210.9 |
| 65° | 454.0 | 499.4 | 458.5 | 206.7 | 122.3 | 190.5 |
| 67.5° | 430.9 | 463.2 | 426.4 | 221.6 | 84.2 | 171.9 |
| 70° | 423.3 | 448.3 | 418.8 | 253.2 | 78.1 | 144.0 |
| 72.5° | 394.9 | 398.1 | 386.8 | 234.6 | 70.3 | 119.9 |
| 75° | 306.1 | 285.7 | 294.8 | 202.1 | 70.4 | 102.2 |
| 77.5° | 190.3 | 182.1 | 183.5 | 154.2 | 62.1 | 76.7 |
| 80° | 143.9 | 139.4 | 137.1 | 130.1 | 58.1 | 58.1 |
| 82.5° | 106.7 | 102.2 | 99.9 | 100.3 | 48.7 | 45.1 |
| 85° | 48.7 | 44.1 | 41.9 | 58.1 | 34.6 | 25.6 |
| 87.5° | 9.9 | 9.9 | 8.0 | 9.9 | 13.1 | 9.3 |
| 90° | 2.9 | 2.9 | 2.9 | 2.9 | 0.9 | 0.0 |
| 92.5° | 12.0 | 9.7 | 12.0 | 36.5 | 10.7 | 3.1 |
| 95° | 42.6 | 27.7 | 42.6 | 115.6 | 25.4 | 8.6 |
| 97.5° | 119.2 | 75.1 | 119.2 | 191.4 | 33.0 | 15.7 |
| 100° | 201.9 | 134.7 | 201.9 | 215.9 | 36.9 | 21.0 |
| 102.5° | 288.4 | 226.4 | 288.4 | 211.3 | 41.5 | 26.4 |
| 105° | 368.3 | 351.5 | 368.3 | 192.9 | 48.4 | 34.4 |
| 107.5° | 374.5 | 393.0 | 374.5 | 175.4 | 55.5 | 42.4 |
| 110° | 365.7 | 402.1 | 365.7 | 166.2 | 60.8 | 47.8 |



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CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|-------|--------|-------|--------|-------|
| 112.5° | 349.9 | 396.0 | 349.9 | 161.6 | 65.4 | 53.1 |
| 115° | 323.1 | 378.2 | 323.1 | 156.6 | 72.3 | 61.1 |
| 117.5° | 297.6 | 354.0 | 297.6 | 154.5 | 79.2 | 69.0 |
| 120° | 283.0 | 337.2 | 283.0 | 153.8 | 83.8 | 73.5 |
| 122.5° | 270.7 | 320.4 | 270.7 | 154.5 | 88.4 | 78.1 |
| 125° | 254.1 | 298.0 | 254.1 | 154.7 | 94.3 | 85.0 |
| 127.5° | 241.7 | 279.1 | 241.7 | 154.7 | 100.1 | 90.5 |
| 130° | 234.8 | 268.4 | 234.8 | 154.7 | 103.9 | 93.6 |
| 132.5° | 228.6 | 260.0 | 228.6 | 154.0 | 107.7 | 97.4 |
| 135° | 219.3 | 246.4 | 219.3 | 153.8 | 113.4 | 102.2 |
| 137.5° | 210.1 | 234.8 | 210.1 | 153.8 | 118.0 | 107.7 |
| 140° | 204.0 | 226.4 | 204.0 | 153.8 | 121.1 | 110.8 |
| 142.5° | 197.8 | 218.0 | 197.8 | 153.8 | 124.1 | 114.6 |
| 145° | 189.5 | 206.3 | 189.5 | 153.8 | 128.7 | 119.4 |
| 147.5° | 181.8 | 195.0 | 181.8 | 154.7 | 133.2 | 125.1 |
| 150° | 177.9 | 188.2 | 177.9 | 154.7 | 135.5 | 128.9 |
| 152.5° | 174.0 | 182.8 | 174.0 | 154.7 | 137.8 | 132.0 |
| 155° | 170.1 | 175.8 | 170.1 | 154.7 | 141.3 | 136.6 |
| 157.5° | 166.7 | 170.2 | 166.7 | 154.7 | 144.7 | 141.2 |
| 160° | 164.4 | 167.2 | 164.4 | 154.7 | 147.0 | 144.2 |
| 162.5° | 162.8 | 164.9 | 162.8 | 154.7 | 148.6 | 146.5 |
| 165° | 160.5 | 162.4 | 160.5 | 155.7 | 150.9 | 150.0 |
| 167.5° | 159.2 | 160.1 | 159.2 | 154.7 | 152.2 | 152.1 |
| 170° | 157.6 | 158.6 | 157.6 | 154.7 | 153.8 | 152.8 |
| 172.5° | 156.8 | 157.0 | 156.8 | 155.5 | 154.5 | 154.4 |
| 175° | 156.6 | 155.7 | 156.6 | 155.7 | 155.7 | 155.7 |
| 177.5° | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 |
| 180° | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 | 155.7 |



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CIE UGR TABLE:

| Reflectances: | | | | | | | | | | | |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling | | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| Wall | | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| Reference plane | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X=2H | Y=2H | 16.21 | 17.25 | 16.85 | 17.89 | 18.61 | 15.07 | 16.11 | 15.71 | 16.74 | 17.47 |
| | 3H | 16.92 | 17.85 | 17.57 | 18.50 | 19.26 | 21.23 | 22.16 | 21.88 | 22.81 | 23.57 |
| | 4H | 17.34 | 18.21 | 18.01 | 18.87 | 19.65 | 22.51 | 23.39 | 23.19 | 24.05 | 24.83 |
| | 6H | 17.70 | 18.51 | 18.39 | 19.18 | 19.97 | 23.13 | 23.93 | 23.81 | 24.60 | 25.39 |
| | 8H | 17.82 | 18.59 | 18.52 | 19.28 | 20.07 | 23.26 | 24.02 | 23.95 | 24.71 | 25.51 |
| | 12H | 17.90 | 18.63 | 18.60 | 19.31 | 20.13 | 23.30 | 24.03 | 24.00 | 24.71 | 25.53 |
| 4H | 2H | 16.62 | 17.50 | 17.30 | 18.16 | 18.94 | 15.62 | 16.49 | 16.29 | 17.15 | 17.93 |
| | 3H | 17.63 | 18.36 | 18.32 | 19.06 | 19.85 | 21.95 | 22.68 | 22.64 | 23.38 | 24.18 |
| | 4H | 18.20 | 18.86 | 18.90 | 19.56 | 20.39 | 23.41 | 24.07 | 24.11 | 24.77 | 25.60 |
| | 6H | 18.68 | 19.25 | 19.41 | 19.98 | 20.82 | 24.15 | 24.72 | 24.88 | 25.45 | 26.29 |
| | 8H | 18.86 | 19.39 | 19.58 | 20.11 | 20.96 | 24.32 | 24.86 | 25.05 | 25.58 | 26.43 |
| | 12H | 18.98 | 19.45 | 19.73 | 20.20 | 21.05 | 24.39 | 24.87 | 25.14 | 25.62 | 26.47 |
| 8H | 4H | 19.31 | 19.84 | 20.04 | 20.57 | 21.41 | 23.54 | 24.08 | 24.27 | 24.80 | 25.65 |
| | 6H | 19.92 | 20.36 | 20.68 | 21.13 | 21.98 | 24.43 | 24.86 | 25.18 | 25.63 | 26.48 |
| | 8H | 20.16 | 20.55 | 20.93 | 21.32 | 22.18 | 24.68 | 25.07 | 25.45 | 25.84 | 26.70 |
| | 12H | 20.34 | 20.68 | 21.11 | 21.44 | 22.37 | 24.81 | 25.15 | 25.58 | 25.91 | 26.83 |
| 12H | 4H | 19.46 | 19.94 | 20.21 | 20.69 | 21.54 | 23.51 | 23.99 | 24.26 | 24.74 | 25.59 |
| | 6H | 20.20 | 20.58 | 20.97 | 21.36 | 22.22 | 24.44 | 24.82 | 25.21 | 25.60 | 26.46 |
| | 8H | 20.51 | 20.85 | 21.27 | 21.60 | 22.53 | 24.73 | 25.07 | 25.50 | 25.82 | 26.75 |